

WHAT IS CLAIMED IS:

1. A lock, comprising a quick unlocking device including:

a frame;

a face plate mounted on a side of the frame;

5 a drive shaft movably mounted in the frame;

a latch bolt retractably mounted on the face plate and secured on a first end of the drive shaft to move therewith;

a multi-stage dead bolt movably mounted in the frame and having a first end retractably mounted on the face plate and a second end having a first side formed with a plurality of arcuate locking grooves;

a locking plate movably mounted in the frame and having an end formed with a locking block detachably locked in either one of the locking grooves of the dead bolt to lock the dead bolt;

15 an inner crank pivotally mounted on the frame and having a first section secured on a second end of the drive shaft for moving the drive shaft and a second section formed with a pivot plate; and

a hook plate movably mounted in the frame and having a first end pivotally mounted on the pivot plate of the inner crank and a second end formed with a hook portion located adjacent to the locking block of the locking plate, so that the hook portion of the hook plate is movable to urge and move the locking block of the locking plate to detach from the locking grooves of the dead bolt so as to release the dead bolt, such that the dead bolt is movable.

2. The lock in accordance with claim 1, wherein the inner crank is substantially L-shaped.

3. The lock in accordance with claim 1, wherein the inner crank has a mediate section formed with a square hole, and the quick unlocking device
5 further includes an inner handle pivotally mounted on a door plate and having a square spindle secured in the square hole of the inner crank for rotating the inner crank, so that the inner crank is pivoted by rotation of the inner handle so as to move the drive shaft.

4. The lock in accordance with claim 1, wherein the quick unlocking
10 device further includes an outer crank pivotally mounted on the frame and having a first section secured on the second end of the drive shaft for moving the drive shaft.

5. The lock in accordance with claim 1, wherein the quick unlocking device further includes a tensile spring having a first end secured on the frame
15 and a second end secured on the second end of the hook plate, so that the hook portion of the hook plate is normally located under the locking block of the locking plate by the elastic force of the tensile spring.

6. The lock in accordance with claim 1, wherein the first end of the dead bolt is substantially U-shaped, and the quick unlocking device further
20 includes a compression spring urged between the first end of the dead bolt and the face plate to push the dead bolt to move toward the locking plate to retract into the face plate.

7. The lock in accordance with claim 6, wherein the first end of the dead bolt has a mediate portion formed with a positioning post for mounting a first end of the compression spring, and the face plate is formed with a positioning post for mounting a second end of the compression spring.

5 8. The lock in accordance with claim 1, wherein when the inner crank is rotated, the latch bolt and the dead bolt are unlocked synchronously.

9. The lock in accordance with claim 1, wherein the hook plate has a mediate portion formed with a guide slot, and the quick unlocking device further includes a drive plate movably mounted in the frame and having a first
10 end formed with a hook post slidably mounted in the guide slot of the hook plate and a second end formed with a screw bore, an adjusting bolt rotatably mounted on the face plate and screwed into the screw bore of the drive plate, and a positioning plate secured on the frame for retaining the adjusting bolt.

10. The lock in accordance with claim 9, wherein the face plate is
15 formed with a through hole for receiving the adjusting bolt.

11. The lock in accordance with claim 1, further comprising a secondary locking device including:

a locking seat having an end formed with a locking hole;

a control knob rotatably mounted on the locking seat to control
20 movement of the dead bolt and having an end formed with a slide seat that is rotatable with the control knob to align with the locking hole of the locking seat; and

a locking block movably mounted on the slide seat of the control knob and having a hollow inside formed with a protruding locking stud detachably locked in the locking hole of the locking seat to lock the control knob on the locking seat.

5 12. The lock in accordance with claim 11, wherein the slide seat of the control knob has an inside formed with an axially extended rectangular insertion hole for insertion of the locking stud of the locking block.

13. The lock in accordance with claim 12, wherein the locking stud of the locking block is substantially rectangular and has a distal end formed
10 with a cylindrical head detachably locked in the locking hole of the locking seat.

14. The lock in accordance with claim 11, wherein the locking stud of the locking block has a side formed with two spaced retaining grooves, the slide seat of the control knob has a periphery formed with a radially extended
15 receiving recess extended into the control knob, and the secondary locking device further includes a positioning stub movably mounted in the receiving recess of the control knob and detachably locked in either one of the two spaced retaining grooves of the locking stud of the locking block to position the locking block, and a spring mounted in the receiving recess of the control
20 knob and urged on the positioning stub to move toward the locking stud of the locking block.

15. The lock in accordance with claim 11, wherein the locking seat is formed with a mounting hole, and the control knob has a mediate portion formed with a protruding control member extended through the mounting hole of the locking seat and connected to the dead bolt, so that when the control knob is rotated, the dead bolt is moved by rotation of the control knob, and when the control knob is fixed, the dead bolt is fixed by the control member of the control knob without movement.

16. The lock in accordance with claim 11, wherein the secondary locking device further includes a screw rotatably mounted in the locking hole of the locking seat and having a length smaller than that of the locking hole of the locking seat.

17. The lock in accordance with claim 16, wherein the locking hole of the locking seat is threaded.

18. The lock in accordance with claim 16, wherein when the screw is moved to flush with a surface of the locking hole of the locking seat, the locking stud of the locking block is stopped by the screw.

19. The lock in accordance with claim 11, wherein the locking seat has two sides each formed with a guide groove located beside the locking hole of the locking seat to guide the locking stud of the locking block.

20. The lock in accordance with claim 19, wherein the guide groove is substantially arcuate.